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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION 10.	
10/071,376	02/08/2002	Nian hua Ou	01-450	1739	
7590 10/31/2003			EXAMINER		
David Mitchell Goodrich, Esq.			STERLING, AMY JO		
J.M. Huber Corporation 333 Thornall Street			ART UNIT	PAPER NUMBER	
Edison, NJ 08837-2220			3632	3632	

DATE MAILED: 10/31/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.		Applicant(s)	\wedge			
4	10/071,376		OU ET AL.	/ \			
Office Action Summary	Examin r		Art Unit				
•	Amy J. Sterling	l	3632	<u> </u>			
The MAILING DATE of this communication appeared for Reply	ppears on the cover s	sheet with the co	rrespondence ac	Idress-			
A SHORTENED STATUTORY PERIOD FOR REP	I Y IS SET TO EXPL	RE 3 MONTH(S	S) FROM	F			
THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	I. 1.136(a). In no event, however bely within the statutory minim d will apply and will expire SI tte, cause the application to b	er, may a reply be time num of thirty (30) days X (6) MONTHS from the become ABANDONED	ely filed will be considered time ne mailing date of this o (35 U.S.C. § 133).	y. ommunication.			
1) Responsive to communication(s) filed on 21	1 July 2003 .						
2a) ☐ This action is FINAL 2b) ☑ 1	This action is non-fina	al.					
3) Since this application is in condition for allow	wance except for for	mal matters, pro	secution as to th	ne merits is			
closed in accordance with the practice unde Disposition of Claims	er <i>Ex par</i> te Quayle, 1	935 C.D. 11, 45	53 O.G. 213.				
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application	on.						
4a) Of the above claim(s) is/are withdr	awn from considerat	tion.					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-16</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	or election requirem	nent.					
Application Papers							
9) The specification is objected to by the Examir			– .				
10)⊠ The drawing(s) filed on <u>08 February 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in			ved by the Examin	iei.			
12) The oath or declaration is objected to by the E	• •	Jii.					
,	_xaminor.						
Priority under 35 U.S.C. §§ 119 and 120	ian priority under 25	U.S.C. & 110(a)	(d) or (f)				
13) Acknowledgment is made of a claim for forei	ight phonty under 33	0.3.C. 9 119(a)	-(u) or (i).				
a) All b) Some * c) None of:	ata baya baan yanai	, and					
1. Certified copies of the priority docume			n Na				
2. Certified copies of the priority docume				Stogo			
 3. Copies of the certified copies of the prapplication from the International E * See the attached detailed Office action for a limit 	Bureau (PCT Rule 17	7.2(a)).		Stage			
14) Acknowledgment is made of a claim for dome				al application).			
a) The translation of the foreign language p	provisional applicatio	n has been rece	eived.				
Attachment(s)	,,	30					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 ।		(PTO-413) Paper No atent Application (P				

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DETAILED ACTION

This is the second non-final Office Action for application number 10/071,376 Laminated Wood Piece and Door Containing the Same, filed on 2/8/02. Claims 1-16 are pending. This is the second non-final Action is in response to applicant's reply dated 7/21/03, paper no. 6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 39, 41 and 44. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

Claims 1, 2 and 10-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent No. 5546715 to Edstrom and in view of the admitted Prior art, cited in the present application 10/071376, dated 2/8/02 in Figure 5 (hereinafter Prior Art), the and further in view Web brochure for Buell Door, dated 2000.

The patent to Edstrom discloses a laminated wood piece having a solid hardwood component (5d)having an upper surface and a lower surface that are

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substantially parallel to each other and a wood core with grains oriented substantially parallel to the lower surface of the solid hardwood component. It is evident from Fig. 2, that the lower grade wood has its grain running substantially parallel to the hardwood veneer layers of 5d.

Edstrom does not specifically disclose that the core is made from layers of a wood composite material. However the Prior Art, as described by the specification on page 1, lines 26-29, teaches that "wood composite materials can be used to form the internal core of a door", in order to have use less wood and to have a cheaper more durable core. Therefore it would have been obvious that the core as referred to by Edstrom could be fashioned from a wood composite material, in order to have a more durable and cheaper core.

Though Edstrom shows the veneer layer (5d) has much less a thickness than the lower grade wood layer (5a), neither Edstrom nor the Prior Art recite specific dimensions of the embodiment or the following configurations of the stile used in a door including an additional stile member being arranged substantially parallel to the at least one stile member the additional stile member have a substantially vertical orientation, with a core, a pair of rails, and a pair of opposed doorskins, wherein at least one stile is in contact with the core.

The Buell Door Web brochure, dated 2000 shows a door with additional stile member being arranged substantially parallel to the at least one stile member the additional stile member have a substantially vertical orientation, with a core, a pair of rails, and a pair of opposed doorskins, wherein at least one stile is in contact with the

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core and specifically cites the thicknesses that could be used in a laminated stile or rail which include the ranges of a thickness of the solid hardwood component to a thickness of the wood composite component from about 1:1 to about 1:10, preferably from 10 about 1:2 to about 1:5, is about 0.3 cm to about 1.3 cm, preferably about 0.6 cm to about 1.1 cm, and the thickness of the wood composite component is about 0.6 cm to about 5 cm, preferably about 2.2 cm to about 3.3 cm. (See stile thicknesses and veneer thicknesses in Chart of 20 Min. Stile and Rail). This structure and dimensions are design choices, which may reduce the material costs as the higher grade wood usage is decreased and the lower grade wood is increased. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made from the teachings of the Buell Door Web brochure to have built the device of Edstrom and the Prior Art with the dimensions cited above in order to reduce material costs.

The method of claims 14-16 in inherent from the structure cited above.

Claims 3-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent No. 5546715 to Edstrom and in view of the admitted Prior art, cited in the present application 10/071376, dated 2/8/02 in Figure 5 (hereinafter Prior Art), and in view of Web brochure for Buell Door, dated 2000 and further in view of United States Patent Publication US 2003/0008110 A1 to Hsu.

Edstrom, the Prior Art and the Buell Door brochure show the basic inventive concept as cited above and including where the width of the piece could be 3 cm to 6 cm and the length of the piece could be 120 cm t about 305 cm in length.

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Esdstrom, the Prior Art and Buell Door do not specifically recited that the wood composite of lower quality wood is an oriented strand board, nor do they recited the specific properties of a screw holding strength of about 400 lbs to about 1200 lbs, a density of 35 lbs/ft2 to about 48 lbs/ft2, a split resistance of greater than about 1000 lbs, where at least 90 wt% of the strands are oriented substantially parallel to the length of the laminated wood piece, with added adhesive from about 3 wt% to about 6 wt% of the overall weight and from about 1% to about 2.5% of a wax additive.

Hsu teaches oriented strand board with a screw holding strength of about 400 lbs to about 1200 lbs, a density of 35 lbs/ft2 to about 48 lbs/ft2, a split resistance of greater than about 1000 lbs, where at least 90 wt% of the strands are oriented substantially parallel to the length of the laminated wood piece, with added adhesive from about 3 wt% to about 6 wt% of the overall weight and from about 1% to about 2.5% of a wax additive. (See Table 1, on page 5). These dimensions are design choices, of oriented particle board used for their strength and moisture resistant properties. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made from the teachings of the Hsu to have used an oriented strand board with the above cited dimensions in order to have the above properties.

Response to Arguments

Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

amendments/communications).

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Conclusion

Any inquiry concerning this communication should be directed to Amy J. Sterling at telephone number 703-308-3271. The examiner can normally be reached (M-F 8 a.m.-5:00 p.m.). If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Leslie Braun can be reached at 703-308-2156. The fax machine number for the Technology center is 703-305-3597 or 703-305-3598 (formal amendments) or 703-308-3519 (informal

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist at 703-308-2168.

Amy J. Sterling

10/22/03

PRIMARY EXAMINER ART UNIT 355363 Z